IN THE CLAIMS

1. (Currently Amended) A system for booking events and initiating actions corresponding to said events, said system comprising:

- an event broker, wherein said event broker is configured to register a plurality of event bookings in response to requests from one or more clients, wherein each said event booking identifies a corresponding event and a corresponding action;
- one or more event managers, wherein each of said one or more event managers is configured to detect particular types of events; and
- one or more action handlers, wherein each of said one or more action handlers is configured to initiate particular types of actions in response to detecting a corresponding event;
- wherein a first event manager of said one or more event managers is configured to

 notify said event broker of a first event which corresponds to a first event

 booking, in response to detecting said first event;
- wherein the event broker is configured to notify a first action handler which

 corresponds to the first event booking, in response to receiving

 notification from the first event manager of the detected first event; and
- wherein the first action handler is configured to initiate a first action, in response to receiving notification from the event broker of the detected first event.
- (Currently Amended) The system of claim 1 wherein said first event manager is not configured to communicate directly with said first action handler. for each said event booking:
 - said event broker is configured to notify one of said event managers which is configured to detect said event identified in said each event booking,



said one of said event managers is configured to notify said event broker of said
event identified in said each event booking upon detecting said event
identified in said each event booking.

said event broker is configured to notify one of said action handlers which is

configured to initiate said action identified in said each event booking in

response to said event being detected, and

said one of said action handlers is configured to initiate said corresponding action in response to said event broker notifying said one of said action handlers.

- 3. (Currently Amended) The system of claim 1 wherein said system is implemented as a framework in a receiver for a broadcast system comprising a software layer between an application layer and a driver layer.
- 4. (Currently Amended) The system of claim 3 1, wherein in response to receiving a

 / request to register said first event booking, said event broker is configured to:

identify and select said first event manager from a plurality of event managers,
wherein said first event manager is identified as being configured to detect
events of a type corresponding to said first event; and
identify and select said first action handler from a plurality of action handlers,
wherein said first action handler is identified as being configured to
initiate actions of a type corresponding to said first action.

wherein the framework is implemented in a receiver for a broadcast system.

- 5. (Original) The system of claim 1 wherein at least a portion of said events are associated with a broadcast signal.
- 6. (Original) The system of claim 3 wherein said event broker, said one or more event managers and said one or more action handlers comprise library extensions accessible by an operating system executing in said receiver.

- 7. (Original) The system of claim 1 wherein said event broker is configured to maintain said event bookings from a plurality of distinct clients.
- 8. (Original) The system of claim 1 wherein said events corresponding to said event bookings comprise a plurality of distinct event types.
- 9. (Original) The system of claim 1 wherein said actions corresponding to said event bookings comprise a plurality of distinct action types.
- 10. (Currently Amended) The system of claim 1, wherein subsequent to receiving notice of said first event booking from said event broker, said first event manager is configured to:

determine whether the first event booking will be accepted by the first event manager; and

provide a positive acknowledgement to said event broker in response to determining the first event booking is accepted.

- wherein each said event booking identifies an event manager configured to detect said corresponding event and an action handler configured to initiate said corresponding action.
- 11. (Original) The system of claim 1 wherein said event broker is configured to determine resources required by said actions and to resolve resource conflicts between said actions.
- 12. (Original) The system of claim 1 wherein said event broker is configured to maintain ranks corresponding to said event bookings and, if a plurality of said events have been detected, to initiate said corresponding actions in an order determined by said ranks.

- 13. (Original) The system of claim 1 wherein said event broker is configured to control accesses to said event bookings based on permissions associated with said accesses and said event bookings.
- 14. (Original) The system of claim 1 wherein each of said event bookings has a corresponding expiration time and wherein said event broker is configured to unregister ones of said event bookings which have passed said expiration time.
- 15. (Currently Amended) A method <u>for brokering and managing event bookings, said</u> <u>method comprising:</u>
 - receiving a request for an event booking at an event broker (30), wherein said request identifies a first event and a first action to be taken upon occurrence of said first event;

registering said event booking request, wherein said event broker notifies a first event manager corresponding to said first event, and notifies a first action handler corresponding to said first action a plurality of event bookings, wherein said plurality of event bookings are requested by a plurality of elients and wherein each said event booking describes a corresponding event and a corresponding action;

detecting said first event by said first event manager; one of said events; and said first event manager notifying said event broker of said detection of said first event;

said event broker providing notification to said first action handler of said detection of said first event; and



- initiating said first action by said first action handler in response to detecting said

 notification from said event broker one of said actions corresponding to

 said detected one of said events in response to detecting said detected one
 of said events.
- 16. (Original) The method of claim 15 wherein said plurality of event bookings are registered in a central location.
- 17. (Original) The method of claim 15 wherein said events corresponding to said plurality of event bookings comprise a plurality of event types, wherein said event types are detected by a plurality of event managers.
- 18. (Original) The method of claim 15 wherein registering one of said booking events comprises storing information identifying one of said plurality of event managers which is configured to detect said corresponding event.
- 19. (Original) The method of claim 15 wherein said actions corresponding to said plurality of event bookings comprise a plurality of action types, wherein said action types are initiated by a plurality of action handlers.
- 20. (Original) The method of claim 19 wherein registering one of said booking events comprises storing information identifying one of said plurality of action handlers which is configured to initiate said corresponding action.
- 21. (Original) The method of claim 20 wherein said action is selected from the group consisting of: downloading an application; launching an application; launching a popup; and notifying a running application of said one of said events.
- 22. (Currently Amended) A device comprising:a signal receiver configured to receive a broadcast signal;



- a first event manager, wherein said first event manager is configured to detect particular types of events;
- a first action handler, wherein said first action handler is configured to initiate

 particular types of actions; and
- an event broker mechanism, wherein said mechanism is configured to:

 receive a request for an event booking, wherein said request identifies a

 first event and a first action to be taken upon occurrence of said
 first event;
 - register said event booking request, wherein said event broker notifies said first event manager and said first action handler;
- wherein said first event manager is configured to detect said first event and notify said event broker of said detection of said first event; and
- wherein said first action handler is configured to initiate said first action in response to receiving notice from said event broker that said first event has been detected.

an event broker mechanism coupled to said signal receiver; and
a storage device coupled to said event broker mechanism and configured to store
event bookings;

- wherein each of said event bookings identifies a corresponding event and a corresponding action;
- wherein said event broker mechanism is configured to operate as an event broker, and wherein said event broker mechanism is configured to execute one or more event managers and one or more action handlers; and
- wherein said event broker mechanism is configured to register said event
 bookings, wherein said event managers are configured to detect said
 events corresponding to said event bookings and wherein said action
 handlers are configured to initiate said actions corresponding to said event
 bookings.



- 23. (Original) The device of claim 22 wherein said device comprises an interactive television system receiver coupled to receive said broadcast signal from a broadcast station and configured to provide an output signal to a television.
- 24. (Currently Amended) The device of claim 22, wherein said mechanism is further configured to identify and select said first event manager from a plurality of event managers, wherein said first event manager is identified as being configured to detect events of a type corresponding to said first event wherein said event broker mechanism comprises a processor executing computer software.
- 25. (Currently Amended) The device of claim 22, wherein said first event manager is not configured to communicate directly with said first action handler-wherein said event broker mechanism comprises application specific circuitry.
- 26. (Currently Amended) The device of claim 22, wherein subsequent to receiving notice of said event booking from said mechanism, said first event manager is configured to determine whether said event booking will be accepted by said first event manager, and provide a positive acknowledgement to said mechanism in response to determining said event booking is accepted wherein said storage device comprises memory.
- 27. (Currently Amended) The device of claim 22, wherein said mechanism is further configured to:

receive an additional request for an event booking, wherein said additional request indicates a second action;

register said additional event booking request;

determine a resource conflict exists between said event booking request and said

additional event booking request; and

resolve said resource conflict

wherein said storage device comprises non-volatile storage.

Old.

28. (New) The device of claim 22, wherein said mechanism is configured to control accesses to said event bookings based on permissions associated with said accesses and said event bookings.